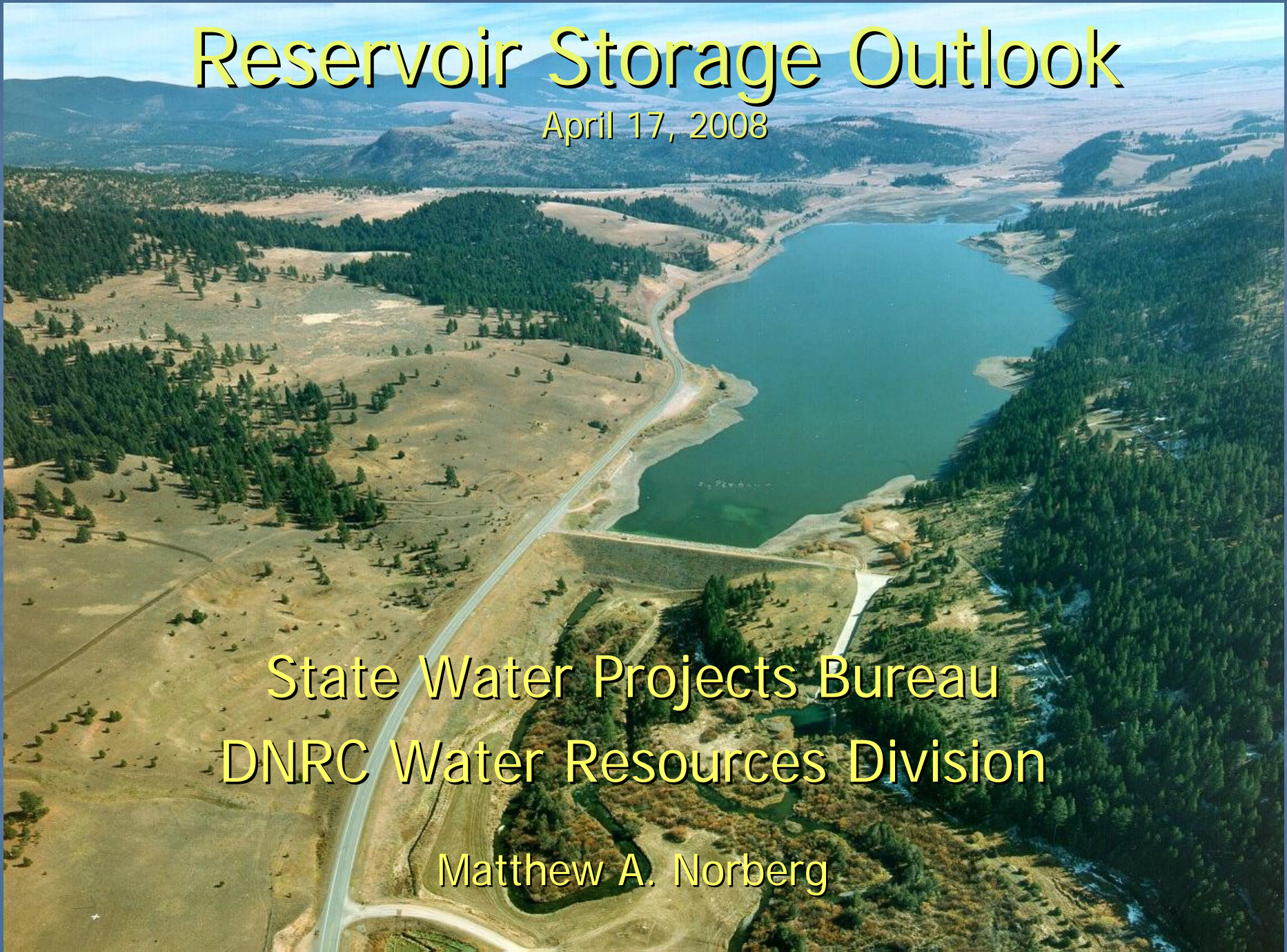


# Reservoir Storage Outlook

April 17, 2008

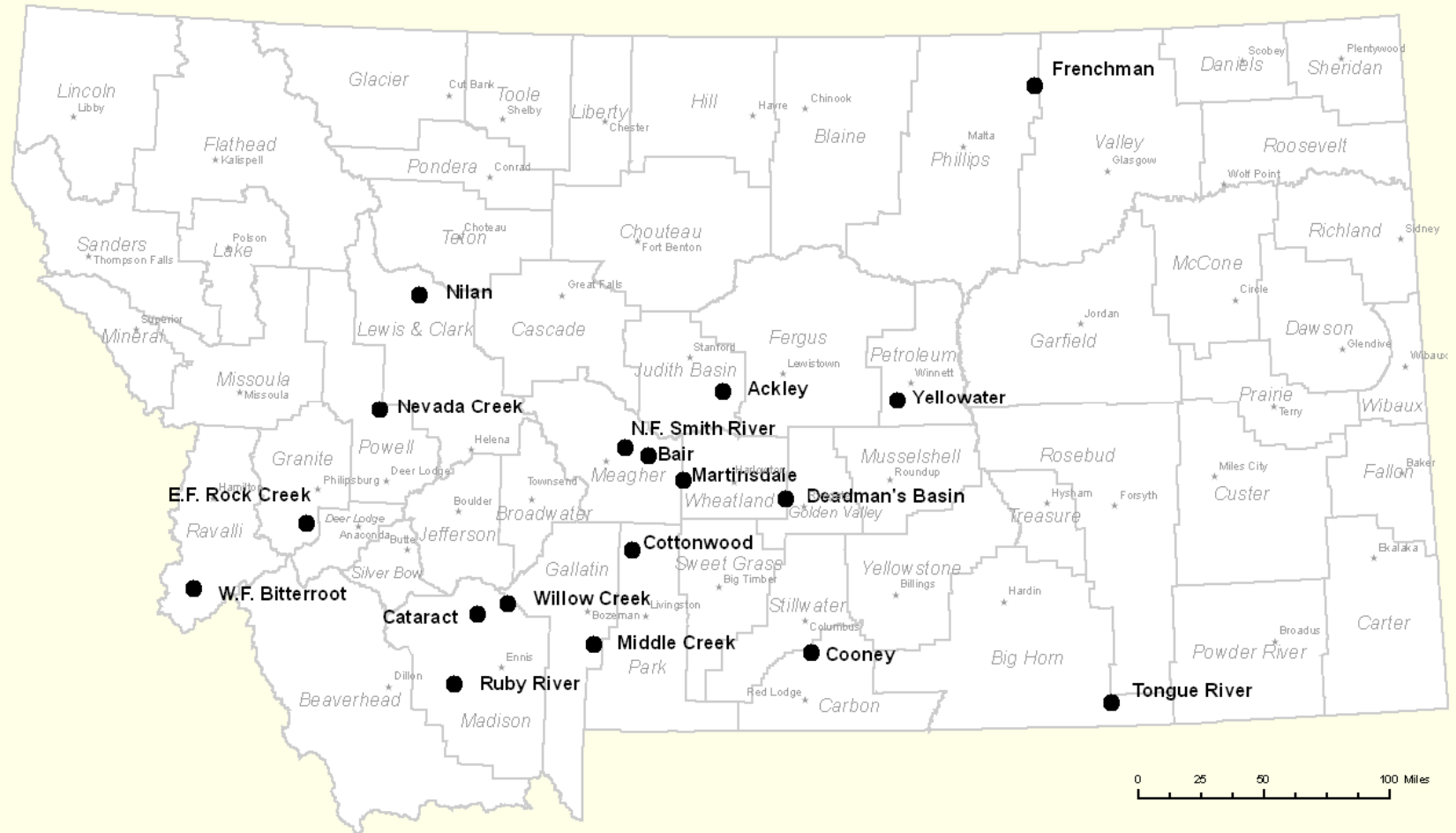
State Water Projects Bureau  
DNRC Water Resources Division

Matthew A. Norberg





# Montana DNRC State Water Projects Bureau Reservoirs



# MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

WATER RESOURCES DIVISION - STATE WATER PROJECTS BUREAU

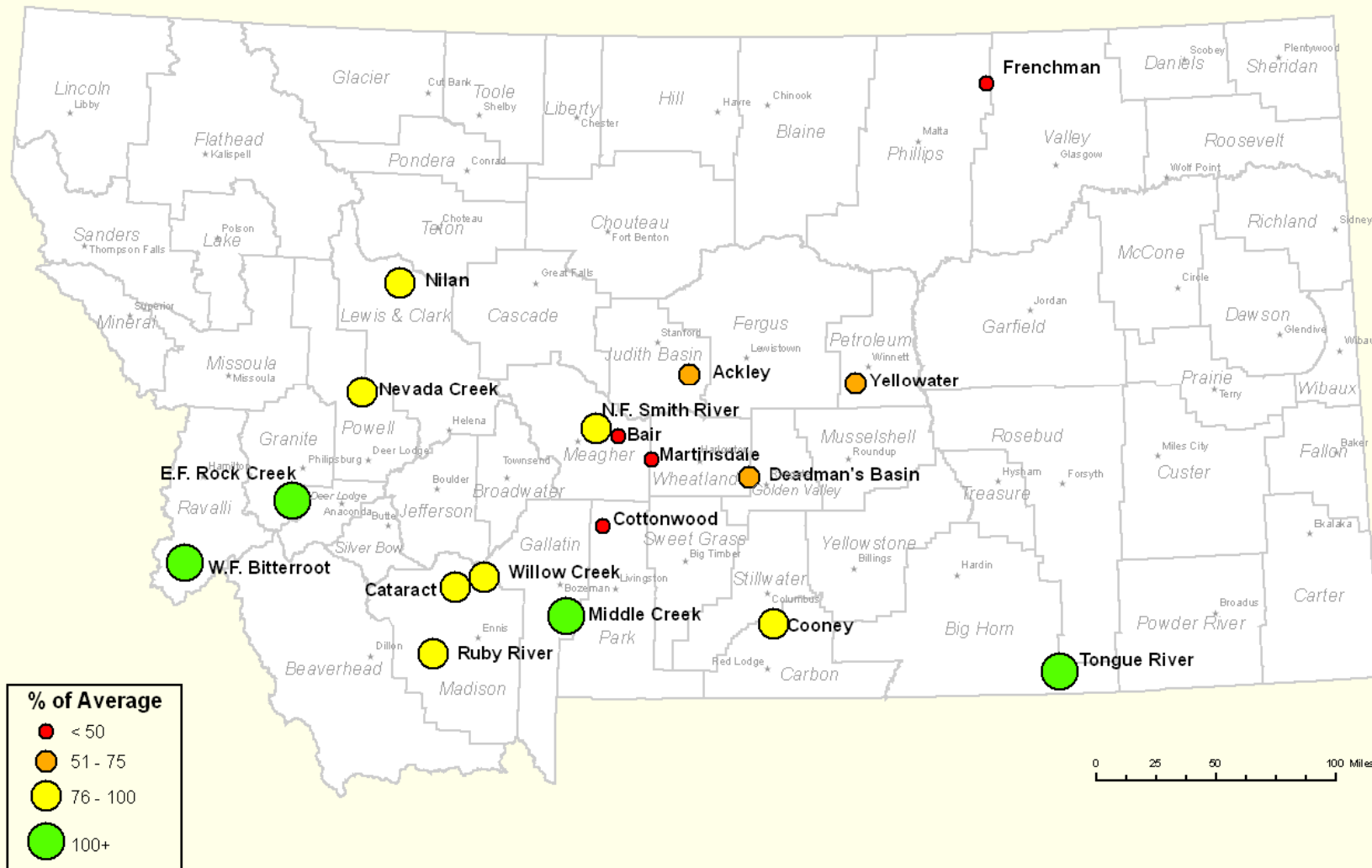
**February 28, 2008**

All Contents in Acre-Feet

RESERVOIR	CAPACITY*	CONTENTS				% CAPACITY 2/28/2008	% AVERAGE 2/28/2008	Reading Date
		AVERAGE	Last Year	Last Month	PRESENT			
		1960 - 2007	2/28/2007	1/31/2008	2/28/2008			
	Full Pool							
	Contents							
ACKLEY	6,140	3,223	2,204	2,172	2,172	35	67	2/29/08
BAIR	7,300	3,846	1,850	1,600	1,583	22	41	3/3/08
CATARACT	1,478	400	500	363	310	21	78	3/4/08
COONEY	28,230	18,718	16,317	16,882	17,170	61	92	2/28/08
COTTONWOOD	1,900	575	449	190	239	13	42	3/3/08
DEADMAN'S BASIN	75,968	45,571	38,200	23,060	26,061	34	57	3/3/08
E.F. ROCK CREEK	16,040	8,541	6,381	9,584	10,160	63	119	2/29/08
FRENCHMAN	3,752	2,736	1,823	1,415	650	17	24	2/29/08
MARTINSDALE	23,348	8,356	0	0	0	0	0	3/3/08
MIDDLE CREEK	10,184	6,035	6,861	6,359	6,441	63	107	2/29/08
NEVADA CREEK	11,207	5,432	5,230	4,595	4,710	42	87	2/29/08
NILAN	10,992	6,294	7,185	5,687	6,055	55	96	3/5/08
N.F.K. SMITH RIVER	11,406	6,194	5,144	4,765	5,083	45	82	3/3/08
RUBY RIVER	36,633	26,826	26,400	22,634	26,023	71	97	3/1/08
TONGUE RIVER	79,071	38,997	51,504	51,244	51,244	65	131	2/29/08
W.F. BITTERROOT	32,362	5,259	9,256	9,139	8,810	27	168	2/29/08
WILLOW CREEK	18,000	14,331	14,813	11,715	11,957	66	83	3/4/08
YELLOWATER	3,842	905	127	600	600	16	66	2/29/08

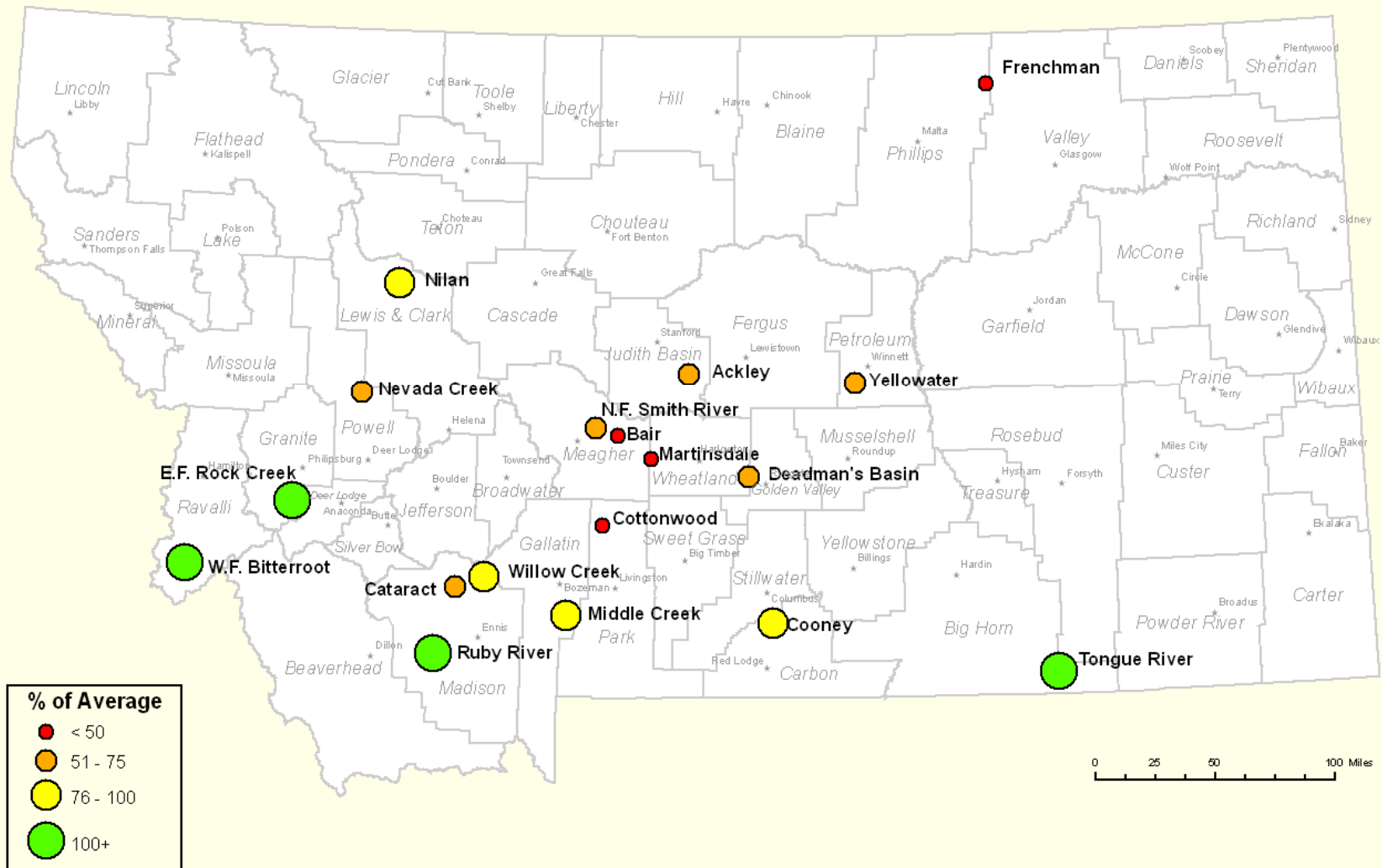
# Reservoir Contents Report

## February 2008



# Reservoir Contents Report

## March 2008



# MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

WATER RESOURCES DIVISION - STATE WATER PROJECTS BUREAU

**March 31, 2008**

All Contents in Acre-Feet

RESERVOIR	CAPACITY*	CONTENTS				% CAPACITY	%AVERAGE	Reading	Mid
		AVERAGE	Last Year	Last Month	PRESENT			Date	Month
	Contents	1960 - 2007	3/31/2007	2/28/2008	3/31/2008	3/31/2008	3/31/2008		
ACKLEY	6,140	3,223	2,457	2,172	2,185	36	68	4/2/08	
BAIR	7,300	4,387	3,055	1,583	1,655	23	38	3/26/08	
CATARACT	1,478	435	500	310	310	21	71	3/31/08	
COONEY	28,230	20,986	18,784	17,170	18,338	65	87	3/28/08	
COTTONWOOD	1,900	842	849	239	269	14	32	4/2/08	
DEADMAN'S BASIN	75,968	48,629	44,176	26,061	28,702	38	59	3/26/08	
E.F. ROCK CREEK	16,040	9,024	6,990	10,160	10,942	68	121	4/17/08	from Data Logger
FRENCHMAN	3,752	3,633	3,752	650	650	17	18	3/31/08	
MARTINSDALE	23,348	9,006	3,501	0	699	3	8	3/26/08	
MIDDLE CREEK	10,184	6,297	7,232	6,441	6,191	61	98	3/25/08	
NEVADA CREEK	11,207	7,722	9,880	4,710	6,140	55	80	4/15/08	R. Hawkins (SD=131.75)
NILAN	10,992	6,567	7,599	6,055	6,269	57	95	3/31/08	
N.FK. SMITH RIVER	11,406	6,995	7,069	5,083	5,264	46	75	3/26/08	
RUBY RIVER	36,633	30,957	30,500	26,023	31,741	87	103	4/1/08	
TONGUE RIVER	79,071	44,339	62,149	51,244	44,473	56	100	4/17/08	from Data Logger
W.F. BITTERROOT	32,362	8,230	17,065	8,810	9,970	31	121	4/16/08	A. Pernichele
WILLOW CREEK	18,000	16,578	17,000	11,957	12,761	71	77	4/1/08	
YELLOWWATER	3,842	1,009	127	600	540	14	54	3/31/08	

# MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

## WATER RESOURCES DIVISION - STATE WATER PROJECTS BUREAU

### Storage increase WTR Yr 2008-Present

All Contents in Acre-Feet

RESERVOIR	CAPACITY*	CONTENTS		Storage Increase	Remaining to Fill
	Full Pool	WTR Year Start	PRESENT		
	Contents	9/30/2007			
ACKLEY	6,140	2,136	2,185	49	3,955
BAIR	7,300	1,436	1,655	219	5,645
CATARACT	1,478	128	310	182	1,168
COONEY	28,230	15,044	18,338	3,294	9,892
COTTONWOOD	1,900	29	269	240	1,631
DEADMAN'S BASIN	75,968	22,727	28,702	5,975	47,266
E.F. ROCK CREEK	16,040	6,165	10,975	4,810	5,065
FRENCHMAN	3,752	691	650	-41	3,102
MARTINSDALE	23,348	0	699	699	22,649
MIDDLE CREEK	10,184	6,659	6,191	-468	3,993
NEVADA CREEK	11,207	3,640	6,140	2,500	5,067
NILAN	10,992	4,725	6,269	1,544	4,723
N.FK. SMITH RIVER	11,406	3,811	5,264	1,453	6,142
RUBY RIVER	36,633	4,055	31,741	27,686	4,892
TONGUE RIVER	79,071	47,598	43,692	-3,906	35,379
W.F. BITTERROOT	32,362	6,732	9,970	3,238	22,392
WILLOW CREEK	18,000	7,491	12,761	5,270	5,239
YELLOWATER	3,842	650	540	-110	3,302



# State Water Projects REHABS

- Martinsdale-drained 2007 for outlet slope stabilization
- Ackley-pre-construction Fall 2008/2009
- Ruby Raise-Spillway/Outlet Rehab
- E. Fork Rock Creek Syphon-replacing 4,050 ft steel pipe with PVC
- Deadman's Basin/Canals-membrane lining of canals, outlet extension/Filter and Drain work on reservoir (Next Biennium)
- Nilan-Lining/Canal Stabilization
- Cataract-Pre-Feasibility study (TBD)





# Conclusions

- Reservoir Storage to date is slow for majority of projects
- 6 of 18 Reservoirs are Near or Above Average vs. 7 Reservoirs Last Month
- Late Snow Melt/Lack of Rainfall and Cold Spring Temperatures Slowing Storage
- Bulk of Fill Yet to Occur
- Numerous Rehab projects are scheduled for DNRC-SWPB